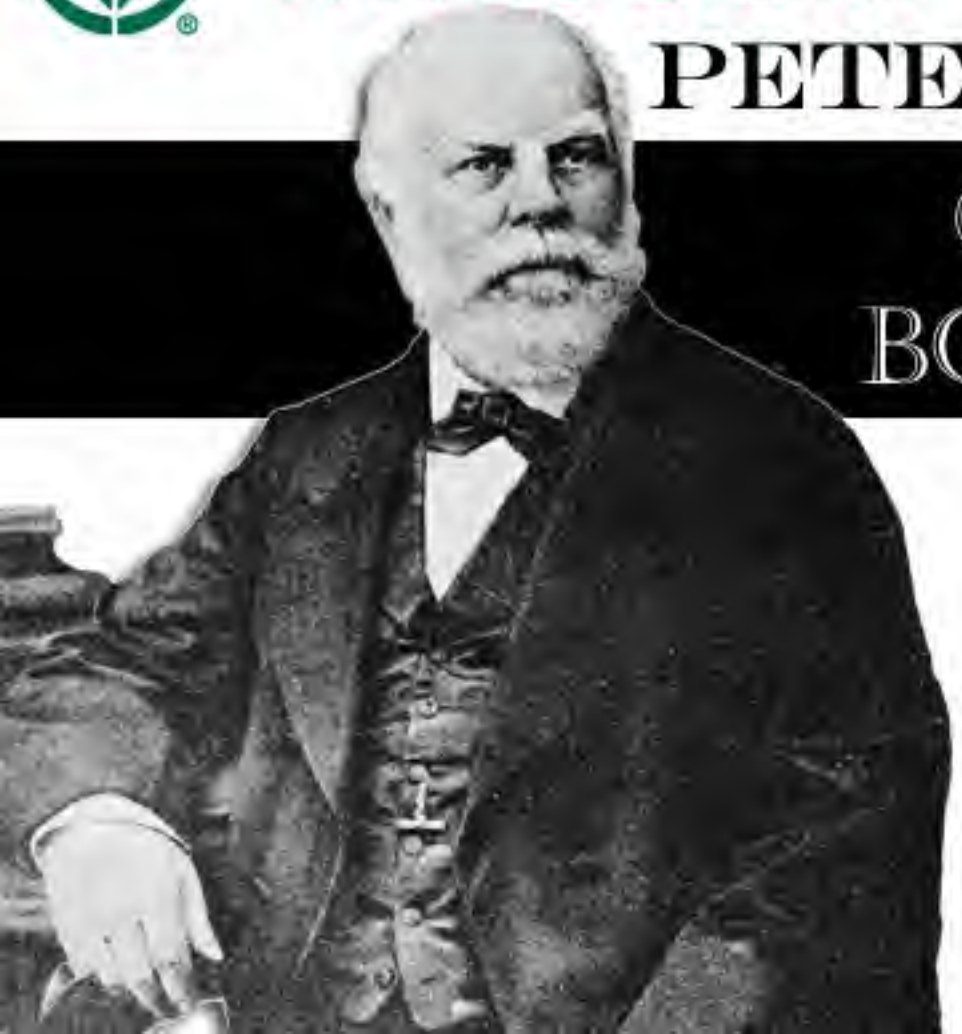
Missouri Botanical Garden
Peter H. Raven Library

George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Yucca Draconis ? H B Mein 7th Aug 1862

×30 edges of leaf

a
b
c

young leaf

lower surface of young leaf

upper surface of same

lower surface of old leaf

×10

a
b
c

old leaf

280

× 280

upper epidermis

lower surface with knobs

0 1 2 3 4 5 6 7 8 9 10
cm
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MISSOURI BOTANICAL GARDEN

ARTHUR LEITCH,

APOTHECARY AND CHEMIST,

Sixth and Market streets, St. Louis, Mo.

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×4

Cotard

1 mm thick

1 3/4 mm thick

5 1/2 mm thick

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Quercus "glaucescens" Hort Bot Montpellier

March 1 1869

Fine old plant, trunk 3 feet high, 6 inches in diameter; thus forming 4 branches, also naked for more than 2 feet.

Leaves 2½ - 2¾ inches long 2 - 2 1/4 wide, pointed with a very short stiff brown point; concave (very much so towards the point folded; dentriculate at the edges, little above but strongly towards the base

glaucous & rough both sides

and this is the only difference I find between this and the plants called Q. glauca, pendula, & crispata. it has also the carinate. nervures on the upper surface of the lower part of the leaf and the same section near the base

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"M. glomosa"
Petigru Island
May/Pires sc
Horse Just
Commencing
16. Oct. 1871

Scape 4 ft
stout. purple.

Trunc 6-8
inches

Panicle
pubescent.

Petals oc-
-casionally "sparingly
ciliate"?

Leaves more
rigid than in the
plicated
plant of Oct 2nd

D. H. Mellichamp

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8567

Y Glonosa — just
commencing to bloom on 16th —
Placed in a pitcher of water
& about dark commenced opening
but apparently not fully open
until 9 o'c. The stamens or
filaments had already come to
recurve when in bud & sum-
- might had not disclosed them
pollen — Still more recurved
when the flr opened at 9 —
anthers not withering then
nor apparently the next day —
withering with flr next
day. Then & dies not again open.

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19 Oct '71 Ver

D Mellichamp. 19 Octo 1871

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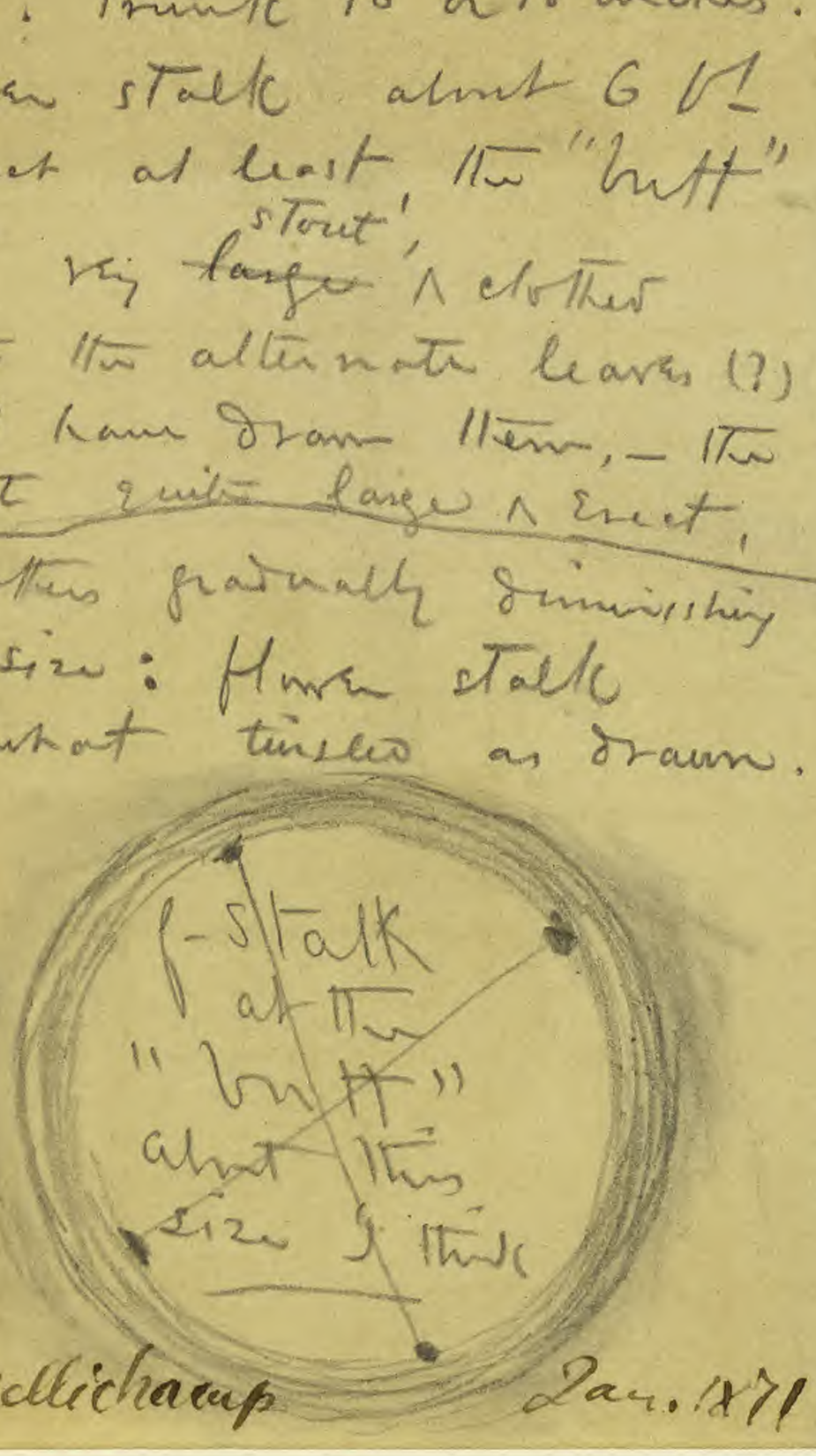
I have a very clear re-
-membrance of the ap-
-pearance of the *Y. gloriosa*
-osa on the beach at
"Stiles" Point, James Isl S. Carol
∧ I believe this is accurate
enough. Trunk 16 or 18 inches.
Flower stalk about 6 ft
I met at least the "butt"
stout,
Erect very large ∧ other
with the alternate leaves (?)
as I have drawn them, — the
lowest quite large ∧ erect,
the others gradually diminishing
in size: flower stalk
somewhat tinged as drawn.



Dr Mellichamp Jan. 1871

see letter of Jan 15 (x71

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"Yucca gloriosa" Hampton Court Sept 4 1869

many fine plants, which abundantly flowered, but none with fruit.—

Trunk of some 180 (5½') 180 cent h. 16 (6") cent diam.

some with 4–5 shorter or rarely longer branches

Leaves of stoutest plants 75 (2½') cent long 7 (2¾) cent wide, entire, (plicate-plated) fold, narrow, stiff.—

short spiny point.

Scape 2 m. high — Panicle erect—

branches erect — flowers not seen

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Yucca gloriosa Sept 21 1870

Hort Bot Missour.

just beginning to flower

natural position of flower

flower turned up

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South-east corner Fourth and Market Streets,

ST. LOUIS.

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Yucca glorios[illegible]

Hort Bot Missouri

Sept 21 1870

Sept 22 1870

x2

section x2

anther x10

x10

ovule 0,33 mm thick

ovules

x30

ovule x60

sect.

style divided to middle with a deep funnel shaped nectariferous cavity & centre

1 carpel of ovary

Size of Pollen x 415

22 - 27 mm

415

dry

wet

8571

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Yucca gloriosa
alt Miami

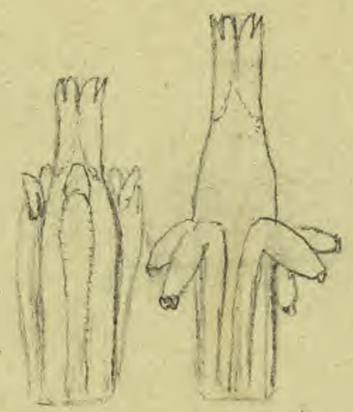
Nov 6 1871

Alt Plants Elongated in flow
Oct 30 –

pedicle smooth

3 o'clock P.M.

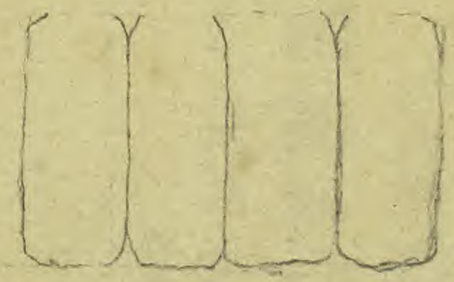
bud just opening



in bud to open in evening

next day

× 2



$\frac{7}{30}$ = 0,23

in bud just opening

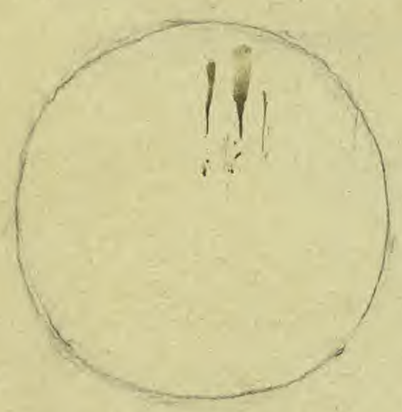
whole space

$\frac{9}{30}$ 0,30

in anthesis / flower

breadth & length of exterior / interior petals

anthers ×10



Pollen × 415

anthers open 3–4 P.M.

Trunk 3' high
leaves 2' long, 1½" wide
straight pointed
scape 3' high; 25 branches

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Deutsche Apotheke.

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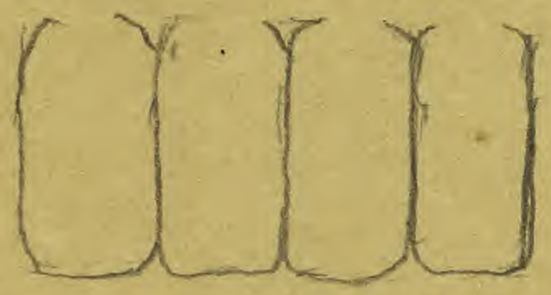
Yucca gloriosa

April 18 1873

ovules ×30



= 0,25 mm Thick

S. Carolina Dr Mellichamp

Octo 2 1871

"Linden" large flowers

½" diam.

short straight leaf

at last strong scape

radicles pubescent

panicle straw glabrate

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8573

12/ 30 / 0,25
4 10 /
20

Alex. Leitch,

PHARMACEUTICAL CHEMIST,

Cor. 4th & Olive Sts., St. Louis.

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Yucca gloriosa
Cemeteries of Charleston S. C
Sept 25 1873

Sept 1873
Gbale Thompson. ices.

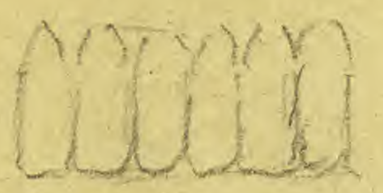
×415

a Pollen grain
found among
old anthers

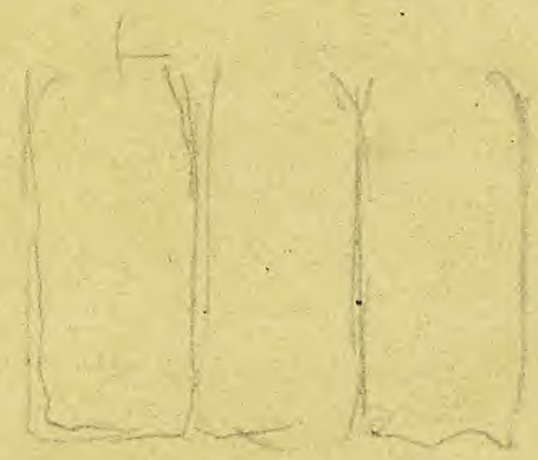
d anther cracked
× 10

×2

effete stamen removed



ovules × 10
each = 0.33 mm



×30

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This is the same specimen
examined Aug 7 1962

gloriosa

Yucca sine nomine = Hort bot Madrow

Sept 21 1870

in a large tub. and beginning to flower flowering for the first time

Trunk 4 feet high, 3–4 ~~feet~~ inches diameter,

Leaves . . . 2 – 2½ feet long,
1½ inches or more in diameter, wide, rough and glaucous
on lower surface, thin, somewhat longitudinally
undulate or plaited – margin brown, breaking off
nearly smooth.

Panicle 2 feet high, much branched,
on a two feet long stalk; flowers pendent
buds short, one cent, brown, dry

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Opuntia
Cactus

181-193

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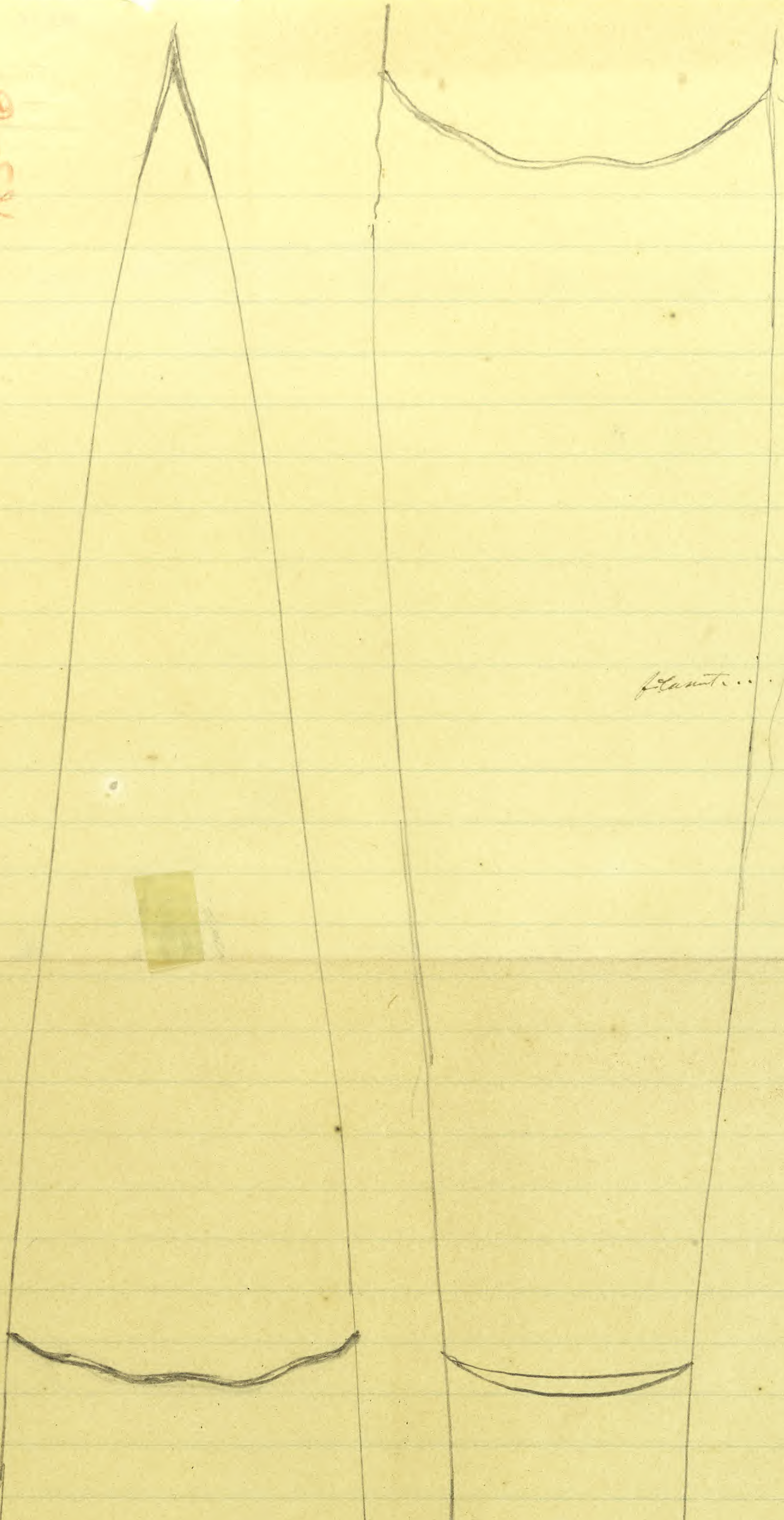
1-3-6



Yucca gloriosa
Ell. sk!

Bluffton S. Carolina
near the Seacoast.

Dr Millichamp Nov 1870

Cap 2 feet long 2/4 inch wide
rather thin, somewhat stiff
plicate, sharp pointed
very slightly rough on
back; edge brown
smooth, gradually
breaking off; at
one place a filament

filament...

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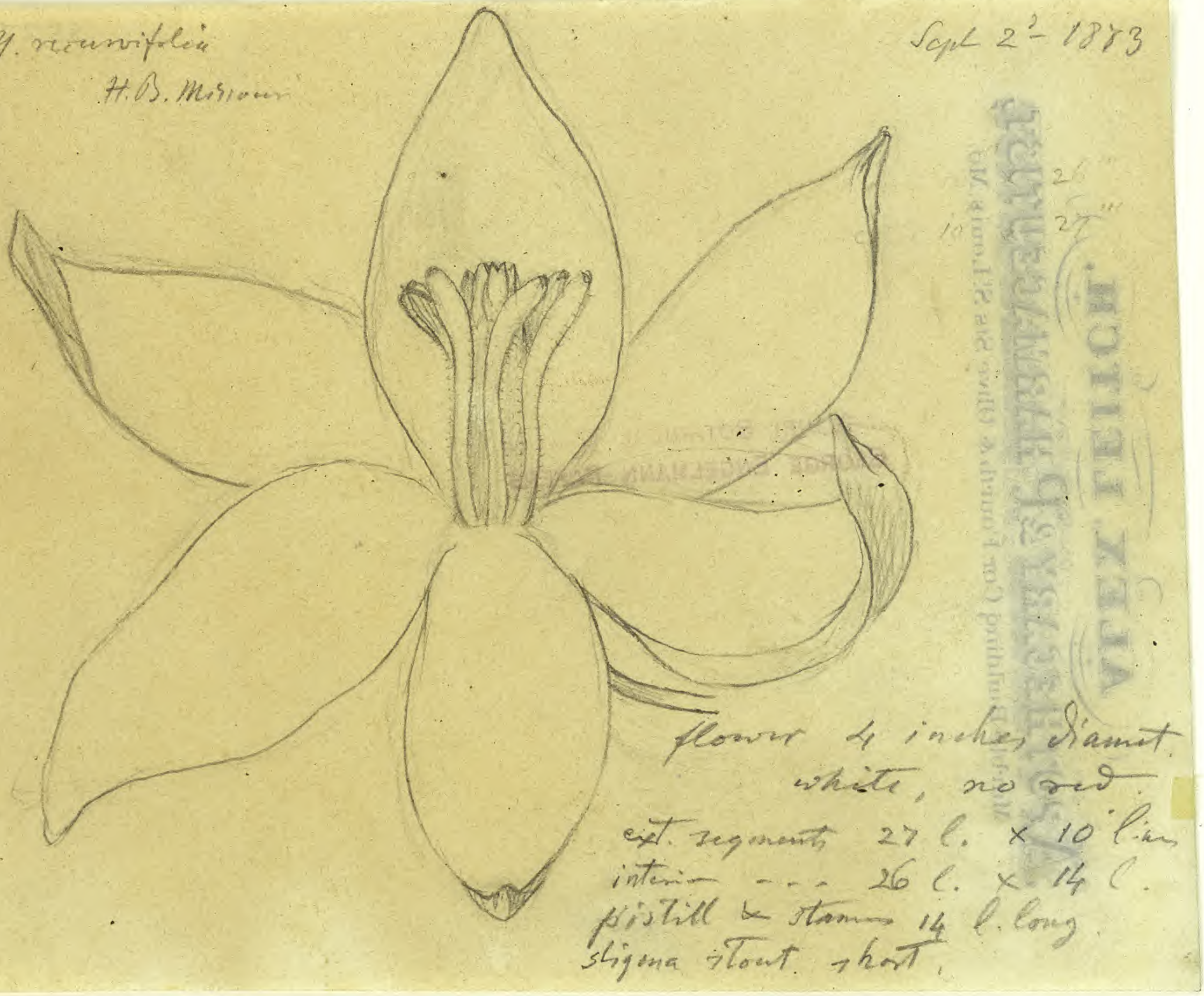
Y. recurvifolia
H. B. Mission

Sept 2 - 1873



flower 4 inches diamt.
white, no red
ext. segments 27 l. × 10 l. lin
interior --- 26 l. × 14 l.
pistill & stamens 14 l. long
stigma stout short.

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Yucca recurvifolia Sept 3d 1873

HB Missouri 1873

×4

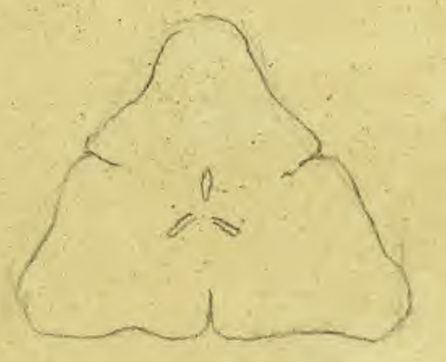
1

2

3

4

5



6

7

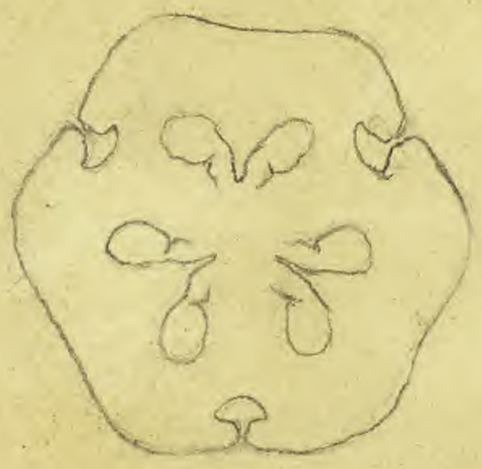
8

cells without ovules

Section through style & ovary

9

middle



10

above base

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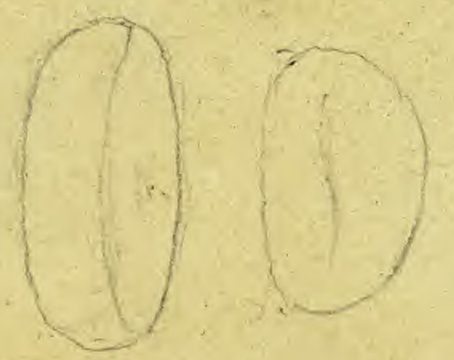
Y. recurvifolia
#63 Missouri

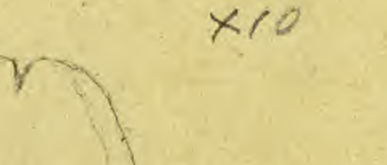
Sept 3? 1873

×10



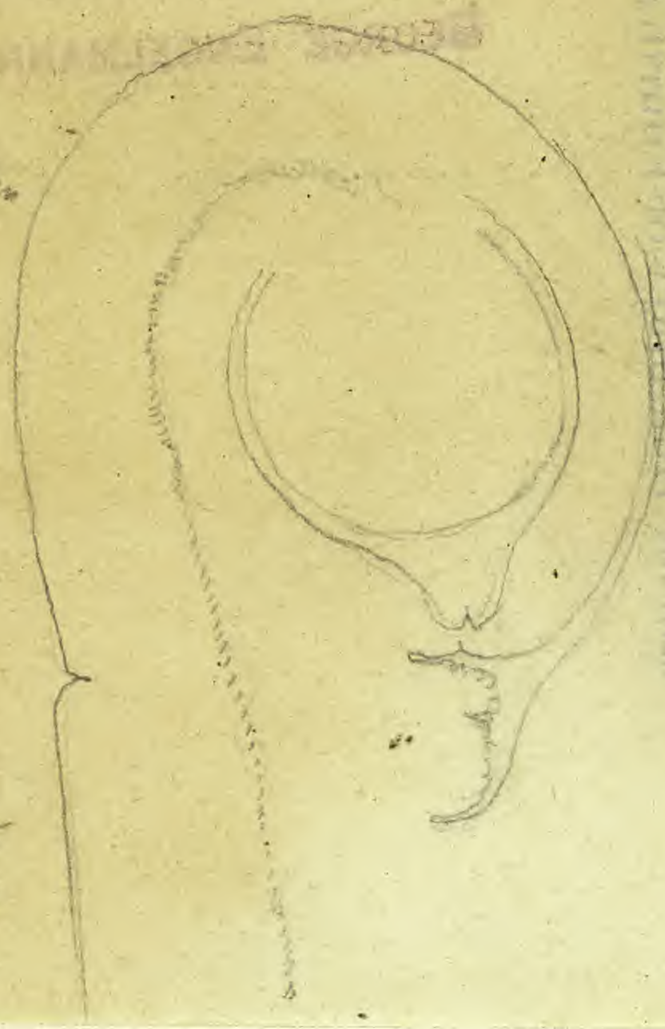
Pollen grains × 615
almost all abortive

anthers from the same bud, scarcely any pollen
drought? or impotence?



ovules × 10
0.3 – 0.32 mm Thick

Sept 5th



ovule
×60

transverse section
×60

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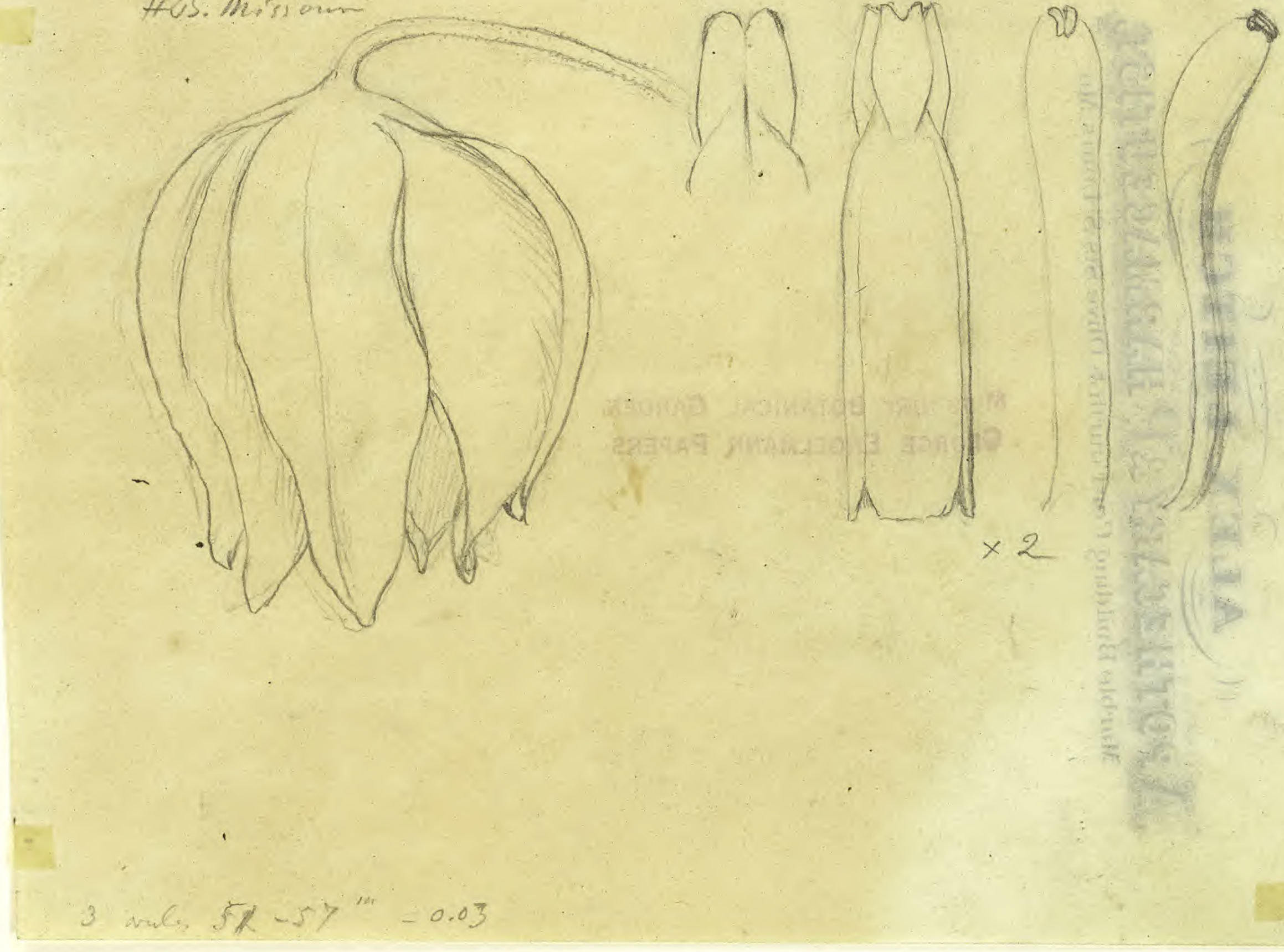
Y. recurvifolia
HB. Missouri

Sept 2 1873



× 2

3 nuc. SR -57''' - 0.03

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